

CLAIMS

What is claimed is:

- 1 1. A wireless mobile phone comprising:
 - 2
 - 3 a body casing having a plurality of surfaces;
 - 4 an input keypad disposed on said a first surface of said body casing to
 - 5 facilitate entry of alphanumeric data;
 - 6 at least a first button disposed on a second surface of said body casing; and
 - 7 complementary logic in support of the at least first button to facilitate entry of
 - 8 alphanumeric data in encoded representations of a variable length encoding
 - 9 scheme using said at least first button.
- 1 2. The wireless mobile phone of claim 1, wherein said mobile phone further
- 2 comprises a display, and said complementary logic further echoes on said display
- 3 alphanumeric data represented by said encoded representations entered using said
- 4 at least first button.
- 1 3. The wireless mobile phone of claim 1, wherein each of said at least first
- 2 button includes one or more light emitting diodes (LED), and said complementary
- 3 logic further lights said LEDs of said at least first button to visually echo encoded
- 4 representations of a variable length encoding scheme of letters, numbers or
- 5 punctuations entered through said input keypad.

1 4. The wireless mobile phone of claim 1, wherein said mobile phone further
2 comprises a transceiver to send and receive signals, and an adapter interface to
3 removably attach a device capable of vibrating to said mobile phone, and to
4 vibrationally output alphanumeric data received through said transceiver using said
5 removably attached capable of vibrating device.

1 5. The wireless mobile phone of claim 4, wherein said alphanumeric data are
2 vibrationally outputted through vibrational manifestation of encoded representations
3 of an encoding scheme of the alphanumeric data.

1 6. The wireless mobile phone of claim 1, wherein said encoded representations
2 are Morse codes.

1 7. The wireless mobile phone of claim 1, wherein said encoded representations
2 are encoded representations of a custom variable length encoding scheme.

1 8. The wireless mobile phone of claim 7, wherein said encoded representations
2 comprise a first code representing a phrase of one or more words in length.

1 9. The wireless mobile phone of claim 8, wherein said phrase of one or more
2 words in length is user specifiable.

1 10. The wireless mobile phone of claim 8, wherein said encoded representations
2 further comprise a second code representing a second user selected word/phrase.

1 11. The wireless mobile phone of claim 7, wherein said encoded representations
2 comprise a code representing a punctuation selected from a group of punctuations
3 consisting of a colon, a semi-colon, a left parenthesis, a right parenthesis, and an
4 exclamation.

1 12. The wireless mobile phone of claim 11, wherein said code representing the
2 selected punctuation is

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| Selected Punctuation | Code |
|-----------------------|-------------------------|
| / (slash) | <i>dahditdahditdah</i> |
| , (comma) | <i>dahdahditditzdah</i> |
| . (period) | <i>dahdahdahditdah</i> |
| ? (question mark) | <i>ditdahditdah</i> |
| : (colon) | <i>ditdahdahditdah</i> |
| ; (semicolon) | <i>ditdahditditzdah</i> |
| ! (exclamation) | <i>ditdahditdahdit</i> |
| ((left parenthesis) | <i>ditditdahditdit</i> |
|) (right parenthesis) | <i>dahdahditdahdah</i> |
| space | <i>ditditditdit</i> |
| ' (single quote) | <i>dahditdahdahdah</i> |
| " (double quote) | <i>ditdahditdahdah</i> |
| - (hyphen) | <i>ditdahdahdahdit</i> |
| + (plus sign) | <i>dahditditditzdah</i> |
| = (equal sign) | <i>ditditdahdahdit</i> |

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1 13. The wireless mobile phone of claim 7, wherein said encoded representations
2 comprise a code representing a letter selected from a group of letters consisting of

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| Letters | Custom Codes |
|---------|---------------------|
| E | <i>ditdit</i> |
| G | <i>dahdahdahdit</i> |
| H | <i>dahditdah</i> |
| I | <i>ditdahdah</i> |
| K | <i>ditdahditdit</i> |
| L | <i>dahdahdit</i> |
| M | <i>dahdahdahdah</i> |
| T | <i>dahdah</i> |
| W | <i>ditditdahdah</i> |

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1 14. The wireless mobile phone of claim 1, wherein said complementary logic
2 further maps each of said entered variable length encode representations to a
3 corresponding code of a fixed length binary representation scheme for representing
4 alphanumeric data.

1 15. The wireless mobile phone of claim 1, wherein said wireless mobile phone
2 further comprises at least an additional second button, and said encoded
3 representations comprise encoded representations for letters A-Z, numbers 0-9, and
4 two phrases of one or more words formed using said first and second buttons.

1 16. The wireless mobile phone of claim 1, wherein said wireless mobile phone
2 further comprises at least an additional second button having one or more frequently
3 used encoded representations associated with the additional second button.

1 17. The wireless mobile phone of claim 16, wherein said one or more frequently
2 used encoded representations comprises an encoded representation corresponding
3 to a "space".

1 18. The wireless mobile phone of claim 1, wherein said first and second surfaces
2 are different surfaces of the body casing.

1 19. The wireless mobile phone of claim 18, wherein said first surface is a front
2 surface of the body casing, and said second surface is a second surface of the body
3 casing.

1 20. The wireless mobile phone of claim 1, wherein said first and second surfaces
2 are the same surface of the body casing.

1 21. A wireless mobile phone comprising:
2 a transceiver to send and receive signals;
3 an adapter interface to removably attach a device capable of vibrating to said
4 mobile phone; and
5 complementary logic in support of said transceiver and said adapter interface
6 to vibrationally output alphanumeric data received via said transceiver through
7 vibrational manifestation of encoded representations of a variable length encoding

8 scheme of the received alphanumeric data using the removably attached capable of
9 vibrating device.

1 22. The wireless mobile phone of claim 21, wherein said mobile phone further
2 comprises a display; and said means are further coupled to said display and echo
3 on said display said alphanumeric data received through said transceiver.

1 23. The wireless mobile phone of claim 21, wherein said encoded
2 representations are Morse codes.

1 24. The wireless mobile phone of claim 21, wherein said encoded
2 representations are encoded representations of a custom variable length encoding
3 scheme.

1 25. The wireless mobile phone of claim 24, wherein said encoded
2 representations comprise a first code representing a phrase of one or more words in
3 length.

1 26. The wireless mobile phone of claim 25, wherein said phrase of one or more
2 words in length is user specifiable.

1 27. The wireless mobile phone of claim 24, wherein said encoded
2 representations comprise a code representing a punctuation selected from a group
3 of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right
4 parenthesis, and an exclamation.

- 1 28. The wireless mobile phone of claim 27, wherein said code representing the
2 selected punctuation is

3

| Selected Punctuation | Code |
|-----------------------|------------------------|
| / (slash) | <i>dahditdahditdah</i> |
| , (comma) | <i>dahdahditditdah</i> |
| . (period) | <i>dahdahdahditdah</i> |
| ? (question mark) | <i>ditdahditdah</i> |
| : (colon) | <i>ditdahdahditdah</i> |
| ; (semicolon) | <i>ditdahditditdah</i> |
| ! (exclamation) | <i>ditdahditdahdit</i> |
| ((left parenthesis) | <i>ditditdahditdit</i> |
|) (right parenthesis) | <i>dahdahditdahdah</i> |
| space | <i>ditditditdit</i> |
| ' (single quote) | <i>dahditdahdahdah</i> |
| " (double quote) | <i>ditdahditdahdah</i> |
| - (hyphen) | <i>ditdahdahdahdit</i> |
| + (plus sign) | <i>dahditditditdah</i> |
| = (equal sign) | <i>ditditdahdahdit</i> |

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- 1 29. The wireless mobile phone of claim 24, wherein said encoded
2 representations comprise a code representing a letter selected from a group of
3 letters consisting of

4

| Letters | Custom Codes |
|---------|---------------------|
| E | <i>ditdit</i> |
| G | <i>dahdahdahdit</i> |
| H | <i>dahditdah</i> |
| I | <i>ditdahdah</i> |
| K | <i>ditdahditdit</i> |
| L | <i>dahdahdit</i> |
| M | <i>dahdahdahdah</i> |
| T | <i>dahdah</i> |
| W | <i>ditditdahdah</i> |

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1 30. The wireless mobile phone of claim 21, wherein said alphanumeric data are
2 received in fixed length binary representations of a fixed length character encoding
3 scheme, and said complementary logic maps each of the received fixed length
4 binary representations to a corresponding encoded representation of the variable
5 length encoding scheme.

1 31. A wireless mobile phone comprising:
2 a body casing having a plurality of surfaces;
3 an input keypad disposed on said a first of said surfaces to facilitate entry of
4 alphanumeric data;
5 at least a first button disposed on a second of said surfaces of said body
6 casing, having first one or more light emitting diodes (LEDs); and

7 complementary logic in support of the input keypad and the at least first
8 button to light said LEDs of said at least first button to visually echo encoded
9 representations of a variable length encoding scheme of letters, numbers or
10 punctuations entered through said input keypad.

1 32. The wireless mobile phone of claim 31, wherein said encoded
2 representations are Morse codes.

1 33. The wireless mobile phone of claim 31, wherein said encoded
2 representations are encoded representations of a custom variable length encoding
3 scheme.

1 34. The wireless mobile phone of claim 33, wherein said encoded
2 representations comprise a first code representing a phrase of one or more words in
3 length.

1 35. The wireless mobile phone of claim 34, wherein said phrase of one or more
2 words in length is user specifiable.

1 36. The wireless mobile phone of claim 33, wherein said encoded
2 representations comprise a code representing a punctuation selected from a group
3 of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right
4 parenthesis, and an exclamation.

1 37. The wireless mobile phone of claim 36, wherein said code representing the
2 selected punctuation is

3

| Selected Punctuation | Code |
|-----------------------|------------------------|
| / (slash) | <i>dahditdahditdah</i> |
| , (comma) | <i>dahdahditditdah</i> |
| . (period) | <i>dahdahdahditdah</i> |
| ? (question mark) | <i>ditdahditdah</i> |
| : (colon) | <i>ditdahdahditdah</i> |
| ; (semicolon) | <i>ditdahditditdah</i> |
| ! (exclamation) | <i>ditdahditdahdit</i> |
| ((left parenthesis) | <i>ditditdahditdit</i> |
|) (right parenthesis) | <i>dahdahditdahdah</i> |
| space | <i>ditditditdit</i> |
| ' (single quote) | <i>dahditdahdahdah</i> |
| " (double quote) | <i>ditdahditdahdah</i> |
| - (hyphen) | <i>ditdahdahdahdit</i> |
| + (plus sign) | <i>dahditditditdah</i> |
| = (equal sign) | <i>ditditdahdahdit</i> |

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- 1 38. The wireless mobile phone of claim 33, wherein said encoded
2 representations comprise a code representing a letter selected from a group of
3 letters consisting of

4

| Letters | Custom Codes |
|---------|---------------|
| E | <i>ditdit</i> |

| | |
|---|---------------------|
| G | <i>dahdahdahdit</i> |
| H | <i>dahditdah</i> |
| I | <i>ditdahdah</i> |
| K | <i>ditdahditdit</i> |
| L | <i>dahdahdit</i> |
| M | <i>dahdahdahdah</i> |
| T | <i>dahdah</i> |
| W | <i>ditditdahdah</i> |

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1 39. The wireless mobile phone of claim 31, wherein said alphanumeric data are
2 entered in fixed length binary representations of a fixed length character encoding
3 scheme, and said complementary logic maps each of the entered fixed length binary
4 representations to a corresponding encoded representation of the variable length
5 encoding scheme.

1 40. The wireless mobile phone of claim 31, wherein said first and second
2 surfaces are different surfaces of said body casing.

1 41. A wireless mobile phone comprising:
2 a body casing having a top surface and a side surface;
3 a first button disposed on either said top surface or said side surface of said
4 body casing;
5 a second button disposed on the same top/side surface of said body casing
6 adjacent to said first button; and

7 means coupled to the first and second buttons and to the transceiver to
8 facilitate entry of alphanumeric data in encoded representations of a variable length
9 encoding scheme using said first and second buttons.

1 42. The wireless mobile phone of claim 41, wherein said wireless mobile phone
2 further comprises an input key pad to input alphanumeric data, and said first and
3 second buttons comprises light emitting diodes to visually echo the variable length
4 encoded representations of the alphanumeric data entered.

1 43. The wireless mobile phone of claim 41, wherein wireless mobile phone
2 further comprises transceiver means to receive textual messages, and adapter
3 means to removably receive a vibrational device to vibrationally output the variable
4 length encoded representations of the textual messages received.

1 44. A wireless mobile phone comprising:
2
3 a body casing having a top surface and a side surface;
4 a first button disposed on either said top surface or said side surface of said
5 body casing;
6 a second button disposed on the same top/side surface of said body casing
7 adjacent to said first button; and
8 a micro-controller and associated memory, including programming
9 instructions stored in said memory, coupled to the first and second buttons and to
10 the transceiver to facilitate entry of alphanumeric data in encoded representations of
11 a variable length encoding scheme using said first and second buttons.

1 45. The wireless mobile phone of claim 44, wherein said wireless mobile phone
2 further comprises an input key pad to input alphanumeric data, and said first and
3 second buttons comprises light emitting diodes to visually echo the variable length
4 encoded representations of the alphanumeric data entered.

1 46. The wireless mobile phone of claim 44, wherein wireless mobile phone
2 further comprises transceiver means to receive textual messages, and adapter
3 means to removably receive a vibrational device to vibrationally output the variable
4 length encoded representations of the textual messages received.

1 47. In a wireless mobile phone, a method comprising:
2 receiving encoded representations of a variable length encoding scheme of
3 alphanumeric data entered using at least a first button disposed on a top or side
4 surface of the mobile phone, said mobile phone also having an input keypad
5 disposed on a front surface to facilitate entry of alphanumeric data; and
6 in response, electrically generating signals corresponding to fixed length
7 digital representations of said alphanumeric data entered through entry of their
8 variable length encoded representations of said variable length encoding scheme
9 using said at least a first button.

1 48. The method of claim 47, wherein said method further comprises visually
2 echoing on a display of said mobile phone said alphanumeric data entered through
3 entry of their variable length encoded representations of said variable length
4 encoding scheme using said at least a first button.

1 49. The method of claim 47, wherein each of said at least a first button includes
2 one or more light emitting diodes (LED), and said method further comprises lighting
3 said LEDs of said at least a first button to visually echo the variable length encoded
4 representations of said variable length encoding scheme of letters, numbers and
5 punctuations entered through said input keypad.

1 50. The method of claim 47, wherein said mobile phone further comprises an
2 adapter interface to removably attach a capable of vibrating device to said mobile
3 phone, and said method further comprises vibrationally outputting the variable
4 length encoded representations of the alphanumeric data received through a
5 transceiver of said mobile phone using said removably attached capable of vibrating
6 device.

1 51. A method of communication comprising:
2 employing a wireless mobile phone to place a call to a callee and
3 communicate verbally with the callee using the wireless mobile phone; and
4 at selected moments of desired increased privacy during the call,
5 communicate non-verbally with the callee, entering text messages to be transmitted
6 to the callee in an encoded representation form in accordance with a variable length
7 encoding scheme, using at least a first button disposed on a top or side surface of
8 the wireless mobile phone, and sending the entered text messages to the callee.

1 52. The method of claim 51, wherein the method further comprises mapping the
2 variable length encoded representations of the text messages into corresponding
3 conventional fixed length digital character set representations, in accordance with
4 the variable length encoding scheme.

1 53. The method of claim 51, wherein said encoded representations are Morse
2 codes.

1 54. The method of claim 51 wherein said encoded representations are encoded
2 representation of a custom encoding scheme.

1 55. The method of claim 54, wherein said variable length encoded
2 representations comprise a first code representing a first user selected word/phrase.

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